# ASBESTOS

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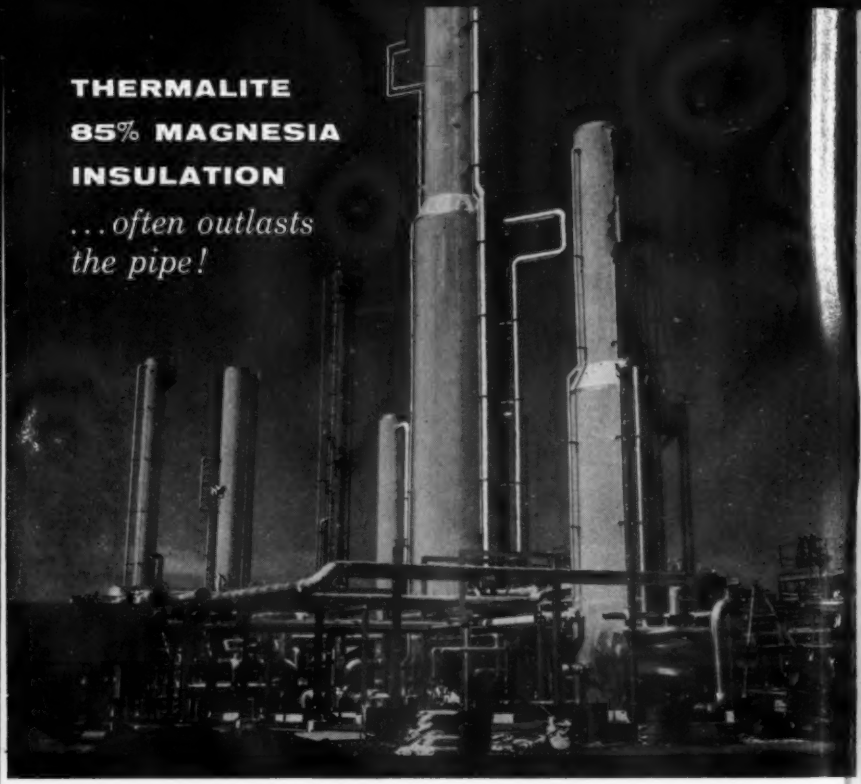
JUNE 1959

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MONTHLY SINCE THAT DATE
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Trust of C. J. STOVER, *Proprietor*
E. E. COX, *Editor*

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## CAPE ASBESTOS COMPANY LIMITED
## LONDON, ENGLAND

*A World-Wide Organization*

**The Cape Asbestos Company Limited of London, England, describes itself as a world-wide organization, and the following article has appeared in their quarterly house magazine making good that claim. (Editor's Note)**

The Cape in our title, as everyone knows, is Cape Province, the part of the Union of South Africa where the founders of our Company first began mining asbestos (blue) at the end of the last century. All our asbestos mining activities are still in the Union of South Africa. Cape Blue Mines (Pty) Ltd. operate the blue asbestos mines in the North East of Cape Province and the one at Malips Drift in the Transvaal; Egnep (Pty) Ltd. and Amosa (Pty) Ltd. operate the amosite asbestos mines in the Transvaal, first acquired in 1925; Consolidated Blue Asbestos Corporation (Pty) Ltd., which became ours only last year, operates a blue asbestos mine in Cape Province.

Cape Asbestos South Africa (Pty) Ltd. is the holding and controlling company in Johannesburg which looks after all our activities in South Africa. Chairman of C.A.S.A.P. is Mr. Claude Cornish-Bowden, who is also a Director of the parent Company. Crude asbestos from these mines in South Africa is sold direct to manufacturers throughout the world, the two biggest customers, besides the U.K., being perhaps the U.S.A. and Australia.

*First Factory In Italy*

Though the parent company was registered in Britain and had its head office in London, its first operations were almost entirely overseas. For, apart from its South African mining activities, its first manufacturing enterprise was also outside England—in Italy. Our first factory was in Turin—well before Barking was ever built. Indeed the company was founded in 1893 with the two-fold purpose of acquiring asbestos mining rights in South Africa and taking over this textile factory in Turin which had been spinning yarn and weaving cloth from asbestos fibre mined in the Alps.

*whatever your business . . .*

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Capamianto Societa per Azioni—"amianto" is the Italian word for "asbestos"—is the successor to this first Cape factory. It makes "Caposite" blocks and pipe sections, textiles and general asbestos goods which it sells through its own organization throughout Italy. Capamianto also has a contracting organization which is very well established at all major shipyards throughout Italy.

There are three overseas companies manufacturing thermal insulation materials, which we own in association with others. Isolamiante Societe Anonyme is a French company formed in association with William Kenyon and Sons Ltd. which manufactures "Caposite" at its factory at Courbevoie, outside Paris, under the name of "Isolamiante"—"amiante" being the French for Asbestos. Caposite Insulations Ltd. is a Canadian company formed with Holmes Foundry Ltd. which makes "Caposite" (pipe sections only so far) at its factory at Sarnia, on Lake Huron, in Ontario.

Cape Asbestos Insulations (Pty) Ltd. of Benoni, a suburb of Johannesburg, in which Reunert and Lenz have a holding, is part of the South African organization controlled by C.A.S.A.P. At Benoni they make "Caposite" insulation, general asbestos goods and "Capasco" brake linings and clutch facings. They also make a stype of asbestos insulation board called "Capil Board". Reunert and Lenz, with head office at Johannesburg and branch offices all over the Union, are their general selling agents.

*Caposite Is Made Abroad*

Our policy is to make "Caposite" amosite asbestos insulation available in as many countries of the world as possible—and "Caposite" that is uniformly the same material as that made at our Barking Works in England manufactured to the same specification. This is of particular significance to shipping, where the reduction in time spent in port on repairs is a highly important operating consideration.

For, not only is "Caposite" made by our overseas subsidiary and associated companies, but also by agreement in the United States by Union Asbestos and Rubber Company of Chicago under the name of "Unibestos"; in Holland by J. de Boer and Company of Amsterdam; in Spain

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by Messrs. Eduardo Rosa of Barcelona; in Australia by James Hardie and Company (Pty) Ltd. of Sidney; and very shortly in Argentina by Montisol SRL at Buenos Aires.

"Asbestolux" asbestos insulation board is also manufactured by arrangement in Australia by James Hardie and Co. and by Dansk Eternit Fabrik SA of Aalborg, Denmark, who sell it not only in that country but also in Sweden and Finland.

Our one other overseas manufacturing company, Cape Asbestos (Ireland) Ltd., produces "Capasco" brake linings and clutch facings at its new works at Limerick.

Three other overseas subsidiary companies are concerned with selling. North American Asbestos Corporation of Chicago under President Robert Cryor sells our products, including Asbestolux and crude asbestos, in the United States, Cape Asbestos (Canada) Ltd., with its office in Toronto, represents us in Canada. In South Africa the Transvaal Equipment Supply Company (Pty) Ltd. distributes some of the equipment of our subsidiary, The Weaver Manufacturing and Engineering Company Ltd. of Bedford, and produces certain items at the Benoni factory outside Johannesburg.

*Overseas Sales Organization*

The sales of our products (including Asbestolux, but exeluding brake linings, Marinite and Weaver) to customers outside the U.K. is the responsibility of the Overseas Sales Division at Head Office in London, under the supervision of the Sales Manager (Overseas), Mr. Michael Newtown. Sales Director on the board of the parent company responsible for home and overseas sales is Mr. Rupert Riley who is aided by Mr. "Bob" Grant, General Commercial Manager.

Our products are sold overseas through a network of agents and representatives covering the entire globe. In three areas we have our own Manager directly employed by the company. Mr. Ebbe Astrup, centered in Oslo, Norway, is our "Scandinavian Manager" who supervises the work of all agents in Norway, Sweden, Denmark and Finland. Air Commodore T. R. Thomas, centered at Port of Spain, Trinidad, is our Caribbean Area Manager for the

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West Indies, Venezuela, Colombia and the Guianas. From his office in Buenos Aires, Mr. Nicholas Shreiber acts as our General Representative for Argentina, Uruguay, Chile and Peru.

Some agents represent us for all our products; some for, say, "Asbestolux" only. On the whole, as would be expected, the "Capasco" overseas agents dealing with the motor trade are a different lot from the "Caposite" agents dealing with the insulation trade. Capamianto in Turin also act as selling agent for our U.K. products in Italy.

A lot of the "Caposite" we export goes into oil refineries and the securing of these contracts is the business of Mr. James Galloway, Manager of our Oil and Power Division, who spends a large part of his time visiting the Middle East, Canada, North and South America, where big refinery projects are being planned.

Marine business in the shipyards of the world is becoming increasingly important and Mr. Tony Runacres is responsible for this aspect.

*Asbestolux Goes To The U.S.A.*

"Asbestolux" asbestos insulation board is exported to the United States where the board carries the label of approval of the Underwriters Laboratories of Chicago, the accredited testing organization. The second biggest buyer of Asbestolux is pehaps Norway, but recent shipments have included Kenya, Holland, Thailand, Germany, Canada, British Guiana, Sierra Leone, Nigeria, Turkey, Jamaica, Ghana, Persia, Fiji and France.

Overseas sales of "Capasco" brake linings are handled by Brake Linings Division at London Head Office under Mr. Peter Worledge. Weaver, whose Sales Director is Mr. Leslie West, organize the export of their garage equipment and steam cleaners from Bedford. A large part of their total output goes abroad to many European countries, and the Commonwealth especially.

"Marinite" is widely used in ship construction on the continent of Europe and our subsidiary, Marinite Limited, in which Johns-Manville International of America have a substantial interest, handle their export orders through their own overseas agents through whom they keep in close

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contact with German, French, Italian, Dutch and Scandinavian shipyards. In addition, Sales Director, Commander George Hutcheson and his aides make frequent visits to overseas customers in search of orders, not only on the shipbuilding side, but for ever-growing industrial applications as well.

Our chairman, Mr. Giles Newton, when reviewing the company's affairs with Joint Managing Directors Mr. Ronald Dent and Mr. Thomas Hale—themselves no stay-at-homes as friends and customers know well—may justly claim responsibility for a world-wide organization.

## JOHNS-MANVILLE COMPANY'S TWO NEW FIREPROOF ASBESTOS PRODUCTS

Fire safety in jet aircraft took a big stride forward with Federal Aviation Agency's announcement recently of outstanding test results of two new fireproof asbestos products which are now being made available for the first time to commercial and military aviation by Johns-Manville. FAA is the newly created government agency which is responsible for air safety and the writing and enforcing of all line air rules and regulations.

The two new materials are a flexible asbestos firewall cloth which is used to seal the openings in aircraft firewalls which isolate engine fires from accessory fluid systems, and a resilient packing seal which is depended upon to control intense heat and flame in ultra-high speed aircraft.

Both materials, which were subjected to the "torture chamber" tests at FAA's Technical Development Center, remained fireproof after far exceeding the 15-minute period of withstanding a 2000°F. flame. The intensity of the test fire is comparable to a severe in-flight aircraft engine fire. Both Johns-Manville products survived the tortuous flame for a full hour without permitting passage of the flame. Significance of the results is the elapsed time element—every minute beyond the normal time span is added protection in flight in times of emergency.

The FAA test consists of a power blower which forces a 2000°F. flame against the material being tested which is

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held in a frame that is vibrated at 2000 cycles per minute over a travel area of one-eighth of an inch. A vacuum is developed in a funnel-shaped structure behind the material, thus making the flame test more intense. Both vacuum and vibration conditions are injected into the test to simulate conditions that might occur in aircraft during an emergency. The test is conducted for a period of 15 minutes during which time the FAA engineer is constantly observing the flame condition on the exposed side. Through a window he observes the back condition, making certain there is no glow, which would constitute failure and automatic rejection.

Frequently when FAA engineers have material on testing equipment and it has reached the 15-minute span satisfactorily, the test is continued longer. J-M's firewall sheet and packing seal survived the test for a full hour.

One of the products tested is called Tadpole Style 160, a packing seal made entirely of braided Inconel wire and knitted Inconel mesh, refractory fiber and metal foil. The cross section consists of a round bulb which serves as the sealing portion and the tail serves as an anchor. Extremely pliable, the special braided structure of the tail section makes it possible to bend the bulb without having the tail section fold up on itself. Also, belts and rivets can be forced through the tail readily without necessity of punching. The ends cut cleanly and can be given normal handling without fraying. Johns-Manville believes the product will also have immediate interest for air brake mechanism, reverse thrust devices and other services in aircraft, missile or industrial applications where a comparatively soft packing must resist gases at high temperatures and velocities.

The other product is a pliable asbestos cloth impregnated with a flameproof compound containing a fluoroelastomer. This cloth, Johns-Manville style #88, is also used in sealing filtered air duct openings, oil and filtered air control rod openings, electrical conduit holes, powerplant control openings and other openings in piston engine stainless steel firewalls.

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## NEW TRENDS IN THE ASBESTOS CEMENT INDUSTRY

By G. Stock, B.Sc., A.M.I.C.E.

**Readers will remember the previous articles written by Mr. G. Stock, B.Sc., A.M.I.C.E. of Asbestos Cement Engineering Co., Vaduz-Liechtenstein (Switzerland) which appeared in our June numbers of previous years. Mr. Stock has written the following article which we hope will be of interest to our readers. (Editor's Note)**

I wrote previously regarding developments in the making of Asbestos Cement Pipes, Pressure Pipes and Socketed Pipes and reported then that machinery was getting more and more specialized. I would now like to inform readers about other recent trends.

*FLEXIBLE ASBESTOS CEMENT SHEETS.* The making of flexible asbestos cement sheets is steadily developing. This sheet is made with the usual board-making machinery, but in addition special machines are used to prepare the cellulose fibres which are added.

It is this fibre which takes off the rigidity of the asbestos cement sheet and adds to the insulating properties of such a board. There are plants which have developed this line so much that their asbestos cement sheet making plant is running full time making these flexible boards.

Owing to the addition of cellulose this board, of course, is only used in the interior of buildings and not outside. This flexible board has a pleasant appearance being usually of a light yellow color. The usual thicknesses are even smaller than the usual asbestos cement flat sheets.

Such flexible sheets are subjected, during manufacture, to very high pressures, and presses for flat sheets have been made for enormous pressures.

A press capable of exerting a pressure of 4,000 tons is looked upon today as an old-fashioned instrument, for presses are delivered currently for 7,000 tons, and even 12,000 ton presses have been made.

The design of these presses has been modernized and to obtain such high pressures more than one hydraulic cylinder is nowadays used, sometimes four or six.

*STEAM HARDENING.* The advantages of steam hardening in the Asbestos Cement Industry are being more and more recognized. Up to now such plants existed only

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in the United States and in Australia, and were erected because they led to quick delivery. Other manufacturers, however, realize now the other inherent advantages, such as:—

a. Small stocks of the finished article need be carried.
b. Saving in cement.
c. A good uniform product.

Some manufacturers, however, tried to save on expenses by adopting high pressure Autoclaves by the following two methods:—

a. In making pipes by roasting them.
b. In making sheets by heating them with steam.

In the first case a tunnel is used in which the Asbestos Cement Pipes, immediately after manufacture and before stripping off the special steel-cores, are heated for about two hours to a temperature of 80 degrees.

The pipe hardens quickly by this system and can quickly be taken off the core. This is, however, not a good practice and not to be recommended, because the crystallization of the cement is disturbed by the high temperature and the dryness prevailing in this kiln. This roasting certainly does not contribute to the making of a good pipe.

Asbestos Cement Pipes, as regards to strength and water-tightness, can only be of a high standard under two conditions of manufacture.

The first system is that the pipe be immersed as quickly as possible after manufacture into water tanks and that thereby the cement, for all the time of hardening, has the necessary water of crystallization.

The second system is by Steam Hardening in a proper Autoclave. Here by high pressure, high temperature, and steam the crystallization is quite different from that obtained under water. In this case (in proper Autoclaves) the cement crystallizes to form a special fibrous crystal similar to Asbestos itself. This crystal is know in Silicate Research as Tobermorite and its development can be checked under the microscope; it contributes to the high strength of Asbestos Cement wares.

Recent experiments have shown that to obtain high strength Tobermorite crystals, high temperature is necessary. This explains why Autoclaves are needed, because the

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temperature of saturated steam is a function of the pressure; the higher the pressure, the higher the steam temperature.

Thus, good results are not obtained by plants where hardening is attempted, only by steam and without Autoclaves.

*ASBESTOS CEMENT SOCKETED PIPES.* In the making of asbestos cement socketed pipes important developments have taken place.

In old systems the forming cylinders were carried from machine to machine by overhead cranes. Patents have been taken out eliminating this tedious procedure. Now the forming cylinders are conveyed continuously from the forming machine to the calender and from the calender to the hydraulic extractor. Manufacture has been thereby considerably cheapened because there is much less labor necessary with the new system.

*LIMITS IN LENGTH AND DIAMETER OF ASBESTOS CEMENT PRESSURE PIPES.* New plants now adopt currently 5-Metre (16 feet) asbestos cement pressure pipe making machines.

Sizes of pipe have reached the following limits:—

a. As to Length: There is a plant, in Europe, which now makes 6-Metre asbestos cement pipes (18 feet) and it is working satisfactorily.

b. As to Diameter: A plant is making pipes of 1200 millimeters diameter (about 47 inches) and has a big order for a pipe-line of this diameter for a low testing pressure.

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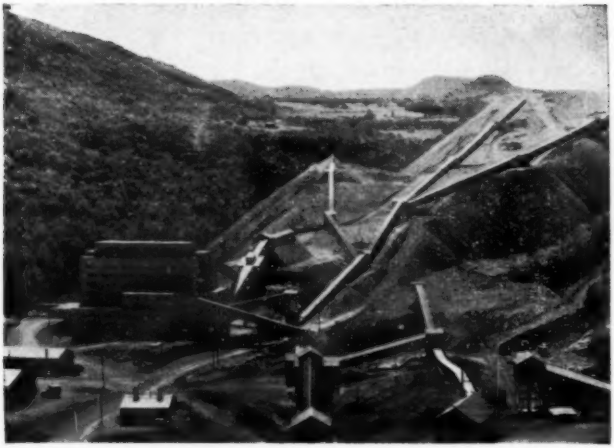

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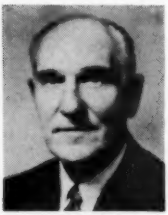
## PROFILE—A. R. FISHER
## JOHNS-MANVILLE CORPORATION



*A. R. Fisher*

Adrain Robert Fisher, Chairman of the Board, Chief Executive Officer and President of Johns-Manville Corporation, has devoted his career to every phase of Johns-Manville sales and production. He is also an authority on the mining and exploration of asbestos fibre, key raw material in many of the more than 400 different lines of products manufactured by Johns-Manville.

Prior to joining Johns-Manville in August, 1923, as Superintendent of the Asphalt Roofing Department for the Johns-Manville plant at Waukegan, Illinois, Mr. Fisher had been a Superintendent with the Barber Asphalt Company at Perth Amboy, New Jersey and Manager with the Stowell Manufacturing Company, Jersey City, New Jersey. Since his first position with J-M at Waukegan, he has served in a managerial capacity at the Company's plants at Lompoc, California and Manville, New Jersey.

In November, 1937, Mr. Fisher was transferred to the company executive offices in New York City as Vice President of Johns-Manville Products Corporation. Eight years later he was made a Vice President of the parent Johns-Manville Corporation, and in January, 1946, was appointed Senior Vice President for Production and acting General Manager of the Company's Asbestos Fibre Division. In January, 1951, he was elected a Director of Johns-Manville Corporation, and in March, 1951, was named President of the Corporation.

Mr. Fisher was elected Chairman and Chief Executive Officer in November of 1957 when L. M. Cassidy retired because of ill health. He also continued as President and Director, positions he has held since 1951.

A native of New Brunswick, New Jersey, Mr. Fisher was graduated from Rutgers University with a Bachelor of Science degree in Engineering, and served as an officer with the United States Army Field Artillery during World War I. He is a member of the Board of Directors of the

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Economic Club of New York, and on May 6, 1959, was elected to the Board of Directors of American Radiator and Standard Sanitary Corporation of New York City.

Mr. Fisher is a member of the Union League Club and the Yale Club of New York City. He is a member of Delta Kappa Epsilon, national social fraternity.

## THE FLINTKOTE COMPANY

### Expansion & Diversification Program

The Flintkote Company today manufactures the broadest line of building products for home and industry in the United States. It has 78 plants and mills located throughout the United States, in Canada, England and France, plus other properties such as timberlands and mining quarries.

The present expansion and diversification program, which actually got under way a little more than 3 years ago, has served to change the character of The Flintkote Company from its earlier identity as a roofing manufacturer to its present position as a producer of a wide range of compatible products.

Sales are now approaching the $200 million level annually compared with 1955 volume of $100,995,922.

Flintkote's own building program was signalled on February 20, 1956, by I. J. Harvey, Jr., chairman of the board and chief executive officer, when, writing in the 1955 annual report to stockholders, he said:

"It is generally agreed that by 1960 new family formations will create a dynamic demand for new construction and be a powerful factor in the consumer goods economy. It is our intention to prepare for this market vigorously in terms of productive facilities and staff. We now have under active consideration or have initiated plans for the manufacture of new products, the expansion of production facilities for our more profitable items and the acquisition of new business."

# *You can cut fibre handling costs!*

Shipment of Carey Asbestos Fibre and Shorts in pressure-packed paper bags offers the possibility of cost savings on:

1. Unloading cars.
2. Warehouse space.
3. No loss of fibre in bag.
4. Less freight charges on lower net weight paper bags vs jute bag.
5. Fewer pallets.

*Additional cost savings* may also be accomplished by shipment of pressure-packed paper bags unitized-loaded on an expendable paperboard pallet. Carey-Canadian unitizes a 3500 lb. load on an expendable paperboard pallet permitting easy removal by fork lift truck from the freight car. *87%* of the car can be unloaded in this manner, thereby saving many man hours.

Ask your Carey-Canadian Fibre Sales Engineer or write any of the addresses below for complete details:

Carey® **ASBESTOS FIBRE**

Carey-Canadian Mines, Ltd., East Broughton Sta. P.Q.
The Philip Carey Co., Ltd., Ville St. Laurent, Montreal 9, P.Q.
The Philip Carey Company, Lockland, Cincinnati 15, Ohio

## OVER 50 YEARS OF ASBESTOS MINING IN FINLAND

By: E. Kosonen*

The history of the Finnish Asbestos deposits goes back to the early stone-age. In the vicinity of the Paakkila Mine, pieces of earthenware cooking pots have been discovered where asbestos fibres had been used as reinforcing component. These pieces of pottery have been estimated to be some 4,500 years of age, possibly the earliest branch of Asbestos industry in the world.

The local peasantry have known asbestos for centuries using it in numerous ways, even as oakum for their log cabins.

The industrial use of the Paakkila asbestos was started in 1901 when a mine was established there. The first mill was built in 1907. The production during the first years was small and was met by such difficulties as cold climate and poor transportation by horse-drawn carts or sleighs over long distances.

The present owners Ab Finska Mineral Oy acquired the property in 1917. Since that time the Paakkila Mine has been a steady producer. With the changing requirements and the improving techniques a number of new mills have been built to replace the older ones, the present one, completed in 1956, being the fifth mill on the property.

The fibre production has increased steadily having, of course, its ups and downs but giving a favourable impression on the whole. From 400 tons in 1920 the production climed up to 2,242 tons in 1930 and in the following ten years moved up to 5,337 tons. The exports have followed the same pattern taking year after year a bigger slice of the total production. In 1958 the shipments were 6,942 tons of which 5,181 tons abroad.

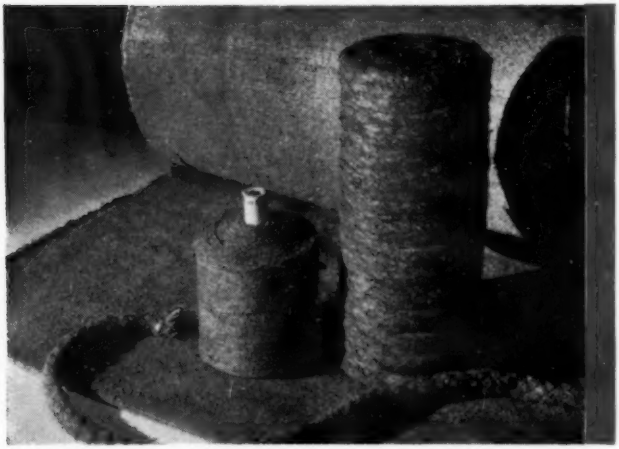
The potential annual capacity of the present mill is

**WILHELM BURGDORF**
*Importer of* **Raw Asbestos**
**P. O. Box 1131, BREMEN, GERMANY**

# NORAMITE

**... Crocidolite and Amosite Asbestos Products for Reinforcement of Plastics**

Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



NAAC

*In the United States*
**NORTH AMERICAN ASBESTOS CORPORATION**
Board of Trade Building • Chicago 4, Illinois

*In Canada*
**CAPE ASBESTOS (CANADA) LIMITED**
200 Bloor Street East • Toronto, Ontario

CAPE

Subsidiaries of The Cape Asbestos Company, Ltd., London

nearly 12,000 tons and is divided as follows:

| | |
|---|---|
| Long grades I:a etc. (corresponding to the Q.S. classification 4 and up) | 200 |
| Medium grades A1, A 11, etc. (corresponding to the Q.S. classification 5—4) | 3,000 |
| Shorts PT 1, PT 3, etc. (corresponding to the Q.S. classification 7—6) | 4,500 |
| Floats MT 1, etc. (corresponding to the Q.S. classification 7) | 1,500 |
| Miscellaneous | 2,800 |

The present mill in Paakkila is well up-to-date, highly automated and is operated by a crew of only 6 men which includes; crushing, drying, milling, bagging, supervision and a strict quality control.

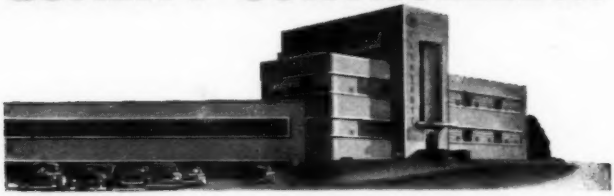
The Finnish anthophyllite asbestos occurs in lenticular bodies of 10,000 to 100,000 tons. The miners call these lenses for "potatoes" and, really, they look like gigantic potatoes with a skin of biotite and covered in a field of granite and biotite gneiss. Unfortunately these lenses cannot be picked like potatoes for great amounts of explosives are required to blast the tough asbestos rock before it can be loaded by power shovels and trucked to the mill. The fibre recoveries vary from 40 to 60% of the mill feed.

The Paakkila ore reserves are estimated to last for several decades to come.

The rombic double-chain anthophyllite fibres have good thermal properties losing no more than 1-3% of their weight when heated at 1650° F. The chemical formula of these fibres is $(Mg_2Fe)_6 \cdot (Si_8O_{22}) \cdot (Mg_2Fe) \cdot (OH)_2$ which means that the chemical resistance is excellent, e.g. the solubility of the fibres when boiled in 10% hydrochloric acid for two hours in no more than 5-10% of weight. There are many other interesting features; the pH value is basic and the dielectric strength at temperatures below 900°F. is superior to most chrysotiles.

Although the mechanical strength of the anthophyllite asbestos is inferior to the chrysotile asbestos there are numerous applications of this variety of asbestos in fields where moderate strength will do and the extreme strength is not required or can be provided by some other material in the mixture.

# QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

## ...FLINTKOTE Asbestos Fibres

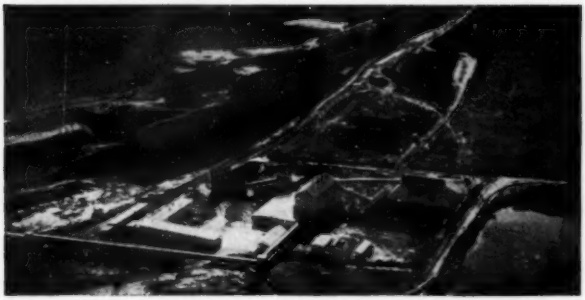
You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

# FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada



Besides the conventional uses of asbestos there are fields where the special characteristics of the anthophyllite asbestos are utilized.

In the acid resistant cements, compounds and plastics it is of utmost importance that the asbestos used is acid resistant since otherwise the acid will penetrate by corrosion the entire thickness of the material through the capillary passages formed by the non-resistant fibres. The active surface of the acids is thus considerably increased resulting in greater corrosion and penetration. Equally dangerous are the minute capillary cracks which occur easily if the compound contains no reinforcing component.

Although asbestos is not a ceramic material, the high thermal resistance of the anthophyllite asbestos makes it useful in certain ceramic products subjected to greaf, abrupt thermal shocks. In such applications anthophyllite asbestos can compete with the refractory fibres.

The low quantity of combined water in the anthophyllite fibres will not cause the fibres to blister in higher temperature. This makes them a suitable filler e.g. in heat resistant plastics.

The high thermal and acid resistance make these fibres an excellent thermal and accoustical material especially in fields where the material has to do with hot and acid liquids or gases.

The special characteristics, the competitive quality and price have proved that the Finnish anthophyllite asbestos has its place and its future in the world of asbestos industry.

*Mine Manager, Finska Mineral Aktiebolaget Helsingfors.

International Asbestos Cement Review
An architectural quarterly devoted to the promotion of asbestos-cement, published in English, French and German editions
Circulation exceeding 44000
Editions Girsberger, 40 Kirchgasse. Zurich, Switzerland
(U. S. agents: Wittenborn & Co. 38 East 57th Street, New York 22)

*Now . . .*
*starting from the usual*

*WET ASBESTOS-CEMENT SHEET*

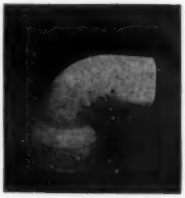
# A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gromigni)

*for manufacturing*

# FITTINGS

OF EVERY SHAPE
AND DIMENSION



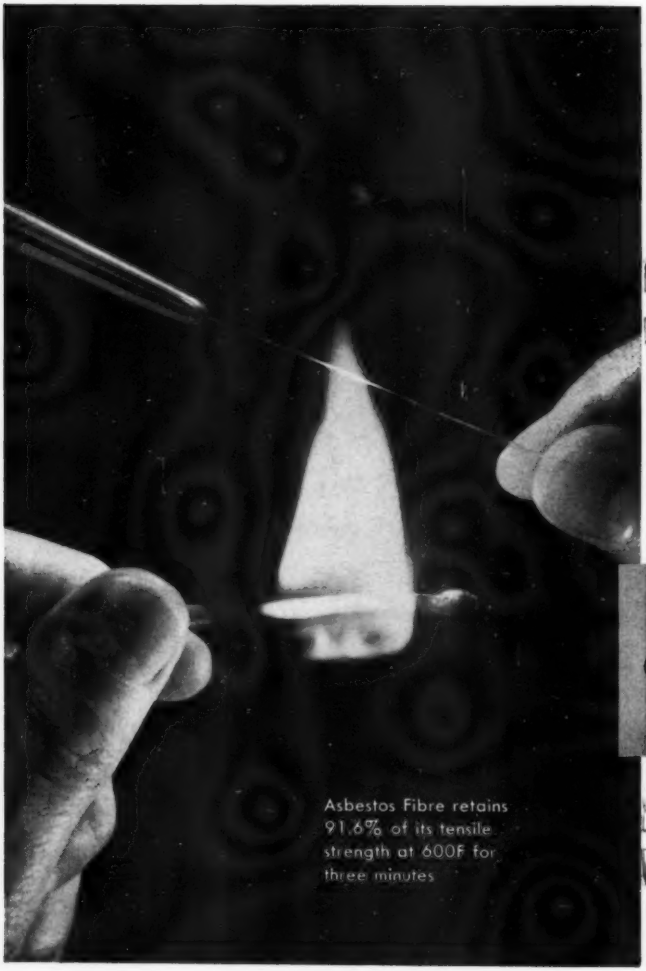
**—TOUGH**
**—RESILIENT**
**—COMPACT**
**—WATERPROOF**

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

*Inquiries for Details, Quotations and References are welcome.*

**ING. G. MARCHIOLI**
**22 Morgagni, Milan, Italy**

**Cable: MINITA—MILANO** **Phone: 26 67 27**


Asbestos Fibre retains
91.6% of its tensile
strength at 600F for
three minutes

# *THE HEAT RESISTANCE*

## of J-M Asbestos Fibre can put your product in the high-temperature zone

Many industries have found asbestos fibre a mineral filler of wide and diverse applications because of its many unique properties . . . particularly its exceptional heat resistance. A standard ingredient in many high-temperature applications . . . J-M asbestos fibre retains 91.6% of its tensile strength at 600F for three minutes!

Other important properties of J-M asbestos include high tensile strength (greater than an equal thickness of ingot or wrought iron) . . . extreme fineness (1500 asbestos fibres are finer than 1 human hair) . . . and high bulking action. Chances are it can improve your product. For further information write Asbestos Fibre Division, Box 1500, Asbestos, P. Q., Canada.

**Plastics** such as distributor heads have greater heat resistance and dimensional stability, when made with J-M asbestos fibres.

**Floor Tile** is more moisture-resistant and has more "give" without cracking with J-M asbestos fibres in the formula.

**Asbestos-Cement Products** are structurally stronger, more resistant to corrosion and the elements when they contain J-M asbestos.

**JOHNS-MANVILLE** JM JOHNS-MANVILLE PRODUCTS

## BUILDING

Increased activity in housing and electric light and power systems boosted construction contracts in March in the United States (except Alaska) to $3,339,934,000, up 23 per cent above March 1958 and a new record for the month, F. W. Dodge Corporation, construction news and marketing specialists, announced.

Commenting on the latest figures, Dodge vice president and economist, Dr. George Cline Smith, declared that housing, which accounted for almost half the total of March contracts, has been the major source of strength in the construction industry so far in 1959.

"Single family houses sparked the increase in March rising 49 per cent above a year ago. Apartment units, which showed strength throughout 1958, also registered a sharp gain in March."

"The number of dwelling units covered by the residential contracts totaled 122,327, up 44 per cent above March 1958."

Dollar volume of residential contracts in the United States in March amounted to $1,540,722,000, up 44 per cent over the like 1958 month.

In the heavy engineering category, contracts in March totaled $885,990,000, up 30 per cent above March 1958. Contracts for electric light and power systems were primarily responsible for the gain.

Contracts in the non-residential building category in March amounted to $913,222,000, down 6 per cent compared to March 1958. While contracts for commercial buildings were about the same as March 1958, contracts for hospitals and social & recreational buildings registered gains.

Cumulative total of contracts for the first quarter of 1959, with the percentage changes from the like 1958 period, showed: non-residential contracts at $2,426,805,000, down 2 per cent; residential contracts at $3,627,761,000 up 41 per cent; heavy engineering contracts at $1,895,039,000, up 12 per cent; and total construction at $7,949,605,000, up 18 per cent.

## AUTOMOBILE SALES

| | March 1959 |
|---|---|
| Passenger Cars | 575,012 |
| Motor Trucks | 111,355 |
| Motor Coaches | 245 |
| | 686,612 |

In March 1958, a total of 433,464 motor vehicles were sold. In the three months of 1959 the total was 1,899,369.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

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## KEASBEY & MATTISON CO. OFFERS 14" & 16" ASBESTOS-CEMENT PIPE

Keasbey & Mattison Company, Ambler, Pa., has announced the availability of its asbestos-cement pipe in 14" and 16" diameters for use in pressure installations, gravity sewer lines as well as irrigation systems.

K&M 14" and 16" pressure pipe is manufactured in classes 100, 150 and 200 to conform to AWWA, ASTM and Federal Specifications. For use in sewers, the new diameters will be available in five crushing strengths intended to meet a variety of field conditions.

Irrigation pipe in the larger diameters will be available in 150 ft. hd., 225 ft. hd., 325 ft. hd., and 450 ft. hd. Used in conjunction with K&M's smaller diameter asbestos-cement pipe, it will be possible to plan irrigation systems that are virtually corrosion-free.

The pipe will be furnished in standard 13-foot lengths and special short length; 6'6" and 3'3". It is designed for use with K&M's exclusive patented FLUID-TITE Coupling.

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# MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to improve at an impressive rate. Steel production is at an all-time high. Although strike-scare buying accounts for a substantial percentage of current steel purchases there is no doubt that much current production is being put to immediate use. Auto sales show signs of slowing somewhat and some contraction in production may be required in the near future. Home building and construction in general are at healthy levels. First quarter company reports with few exceptions show impressive gains in sales and profits. Based on this generally favorable atmosphere the stock market continues to push into new high ground. It appears that the experts were right late last summer when, almost unanimously, they predicted a record high for business in 1959.

ASBESTOS—RAW MATERIAL.

It is expected that May fibre shipments will approximate those of April, which are presently running 15% above the same period last year.

Current indications for the balance of the year lead us to believe that 1959 domestic shipments will be slightly higher than 1958, roughly 15%.

However, International demand has dropped appreciably to date and it is felt will continue throughout the year.

ASBESTOS—MANUFACTURED GOODS.

*Asbestos Textiles.* Market situation is considerably improved due to sharply increased government requirements. However, price competition remains rather severe on standard items. The outlook appears to be fairly strong, particularly from the standpoint of government business.

*Asbestos Brake Lining.* The situation at the present time is excellent. One company reports that the largest replacement sales volume in history was enjoyed during the first quarter of 1959. Business should continue better than

*asbestos cement department*

10, VIA SANTA TERESA

TURIN, ITALY

**Manufacturers of all types of Fully Automatic**

*asbestos cement machinary*

Daily output guaranteed according to the International Standard Specification:

150 ton high pressure pipes
300 ton flat and corrugated sheets

anticipated for the balance of 1959. Equipment sales will taper off in June and July and new models are anticipated in the fall. There are still weak spots in price structure despite large volume, but not quite as bad as the same period in 1958.

*Asbestos Paper.* Orders have increased slightly for this material, although prices continue to remain competitive for the business that is available. It is expected that volume for this product will increase somewhat over last year. The first few months of 1959 indicate a slowly increasing demand for *Millboard* although there has not been the firming of prices that increased volume usually brings. As is the case with many other items, the situation in the steel industry will have an important impact on the asbestos millboard business. Steel mills use a good deal of millboard as do appliances manufacturers. The present situation of *Saturated Paper* remains the same and the outlook continues to be promising.

*High Pressure Insulation.* The market situation is one of extremely severe price competition for the rather limited business available with industry capacity considerably in excess of demand. This price competition seems to be among the contractors for those larger jobs which are available. The outlook is anticipated to be much the same with some slight improvement expected toward the last quarter of the year. Industrial construction has not recovered anywhere near as quickly or as far as other parts of the construction industry.

*Low Pressure Insulation.* Orders for this material have slowed down much more than previously due to the use of other materials and prices are very competitive among the contractors for those jobs where this product is used. The volume for the remainder aof 1959 is anticipated to be somewhat the same as 1958.

*Asbestos Cement Products.* Business remains good and the outlook for the remainder of 1959 continues to promise improvement.

*Shingles—Roofing & Siding.* Order placements to date only slightly above those for the same period last month. There is a surprising drop in business which accounts for the overall low placements for this time of year. The outlook for the balance of the year is good.

*Asbestos Pipes.* Although business is reasonably good at this time, the outlook is uncertain due to high rates of interest and the impending steel strike. However, another company anticipates business to be as good or possibly better than last year.

*Asphalt Tile.* The 1958 Industry sales of this product were up approximately 2% over record sales of the previous year and the first quarter of 1959 showed an increase of approximately 20% over sales during the similar period of 1958. 1958 Industry sales of *Vinyl Asbestos Tile* showed an increase of almost 30% over 1957 and an increase of 57% occurred in the first quarter of the current year. The outlook for the balance of 1959 is excellent, with total Industry sales of Asphalt and Vinyl Asbestos Tile expected to be about 35% ahead of 1958 sales.

**The above comments have been made by various informed executives in the Industry. All comments are welcome.**

---

There were 24,830 pedestrians injured crossing intersections *with* the signal in their favor during 1958 in the United States.

**ASBESTOS FIBRES**
**ASBESTOS WASTE**
**Frank G. Ruggles Co. Inc.**
**26 BROADWAY**
**NEW YORK 4, NEW YORK**

**AFRICA (Rhodesia)**

**(Published by Rhodesia Chamber of Mines)**

*Tons 2,000 lbs.*

| | |
|---|---|
| Production for January 1959 | 8,566.70 |
| Valued at | £529,709 |
| Production for January 1958 | 11,014.09 |
| Valued at | £800,145 |
| Production for February 1959 | 10,093.07 |
| Valued at | £716,819 |
| Production for February 1958 | 10,325.87 |
| Valued at | £649,104 |

**CANADA**

**(Dept. of Mines, Province of Quebec)**

*Tons 2,000 lbs.*

| | |
|---|---|
| Production for March 1959 (Quebec) | 65,334 |
| Other Provinces | 4,568 |
| | 69,902 |

Total production for March 1958 was 55,178 tons.

**BAZILIAN PRODUCTION**

Brazilian production of chrysotile asbestos totaled 1,545 metric tons in 1958, compared with 675 tons in 1957. The producer, S. A. Mineracao de Amianto, owns the only operating asbestos mine in Brazil, near Djalma Dutra, Bahia.

Shipments of chrysotile asbestos by S. A. Mineracao de Amianto, all to Brazilian ports, totaled 1,534 tons during 1958 and 715 tons during 1957.

Imports of asbestos into Brazil totaled 10,560 tons during 1957, of which Canada supplied 7,971 tons; Rhodesia, 1,322 tons; and the United States, 122 tons. The quality of asbestos was not specified.

---

The interesting and constructive article, "THE SIGNIFICANCE OF IRON IN ASBESTOS MATERIALS USED FOR ELECTRICAL INSULATING PURPOSES", by P. O. Nicodemus, appeared in the April 1959 ASTM Bulletin No. 237. ASBESTOS will be glad to lend its copy to interested readers.

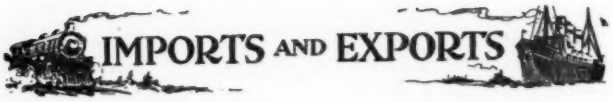
**We're on both sides of your asbestos quality problems!**

We understand your manufacturing problems because we make a wide range of asbestos-cement products, using our own asbestos fibres. Our research people are constantly busy, either helping the plant maintain the strict quality control that we know you expect or preparing special formulae for customers.

Get the benefit of our double experience. Write to National Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company).

Gold Bond
INDUSTRIAL PRODUCTS

a step ahead of tomorrow




## Imports Into U. S. A.

**(Figures by Bureau of Census)**

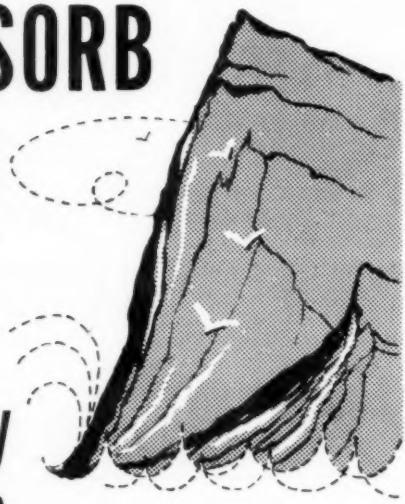
| *Unmanufactured Asbestos:* | December 1958 Tons (2240 lbs.) |
|---|---|
| From: Canada | 41,786 |
| Union of South Africa | 3,440 |
| Rhodesia (Ny) | 1,019 |
| Australia | 716 |
| Yugoslavia | 624 |
| Other Countries | 61 |
| | 47,646 |
| *Valued at* | $5,250,200 |

*By Grades:*

| | |
|---|---|
| Crude, No. 1, Chrysotile, Other Countries | 1 |
| Crude No. 2, Chrysotile, Other Countries | 2 |
| Crude, Other, Chrysotile, Canada | 72 |
| Crude, Other, Chrysotile, Yugoslavia | 624 |
| Crude, Other, Chrysotile, Rhodesia (Ny) | 884 |
| Crude, Other, Chrysotile, Other Countries | 9 |
| Crude, Blue, Australia | 716 |
| Crude, Blue, Union of South Africa | 1,255 |
| Crude, Amosite, Union of South Africa | 2,062 |
| Textile Fibres, Chrysotile, Canada | 3,167 |
| Textile Fibres, Chrysotile, Union of S. Africa | 123 |
| Textile Fibres, Chrysotile, Rhodesia (Ny) | 135 |
| Shingle Fibres, Chrysotile, Canada | 5,043 |
| Paper Fibres, Chrysotile, Canada | 2,900 |
| Other Fibres, Chrysotile, Canada | 30,604 |
| Other Fibres, Chrysotile, Other Countries | 49 |
| | 47,646 |

| *Manufactured Asbestos Goods:* | December 1958 Quantity (lbs.) | Value |
|---|---|---|
| Asbestos Yarn, United Kingdom | 26,302 | $ 29,007 |
| Asbestos Yarn, Other Countries | 36,172 | 20,601 |
| Asbestos Packing, Other Countries | 25,117 | 9,136 |
| Asbestos Shingles (Impreg.) Other Countries | 21,696 | 3,521 |

# DURASORB FELTS give better stability because . . .



Albany's new method of needled construction provides an extremely stable felt which will not alter size or wander on the machine. This factor, together with excellent uniformity, gives you a new advantage in felts for asbestos-cement shingles, siding and sheets. In addition, DURASORB felts are meeting demands for finish, drainage and long life.

Ask your Albany Felt Sales Engineer for full details and case histories on this outstanding performer.

AF

**ALBANY**
**FELT COMPANY**
Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

| | | |
|---|---|---|
| Asbestos Shingles (Not Impreg.) | | |
| Belgium | 890,350 | 66,896 |
| Italy | 1,654,604 | 69,464 |
| Other Countries | 95,370 | 9,371 |
| Asbestos Manufactures—Others | .. | 5,593 |
| | 2,749,611 | $213,589 |

**IMPORTS OF ASBESTOS BY UNITED KINGDOM**

*Raw Materials*
*Tons 2,240 lbs.*

| | 1959 | |
|---|---|---|
| | February | March |
| From: Union of South Africa | 2,026 | 2,803 |
| Basutoland, Bechuanaland & Swaziland | 550 | 926 |
| Rhodesia & Nyasaland | 2,135 | 3,783 |
| Canada | 1,905 | 1,693 |
| Other Commonwealth Countries | 2 | .. |
| Foreign Countries | 46 | 143 |
| | 6,664 | 9,348 |


**MINERAL DRESSING ENGINEER**

Experience in non-metallic benefication is required to work on process development and evaluation studies for several non-metallic minerals

**Union Carbide Nuclear Company**

*Division of Union Carbide Corporation*

Post Office Box 1049

Grand Junction, Colorado

# All that the name implies

# HUYTUF

## NEEDLED FELTS

- Last longer
- Start faster
- Increase production
- Improve product quality
- Lower felt cost
- Make optimum use of synthetics

For the complete story talk to your Man-from-Huyck or write us today.

Huyck Felt Co.,
Rensselaer, N. Y.;
Aliceville, Ala.;
Division of F. C. Huyck & Sons
In Canada: Kenwood Mills Ltd.,
Arnprior, Ontario.

# NEW HUYCK FELTS

★ INDUSTRIAL FABRICS

FIRST IN QUALITY • FIRST IN SERVICE SINCE 1870

## Exports From U.S.A.

**(Figures by Bureau of Census)**

| *Unmanufactured Asbestos:* | February 1959 Tons (2240 lbs.) | Value |
|---|---|---|
| To: Europe | 77 | $23,256 |
| Mexico | 36 | 1,756 |
| South America | 24 | 2,500 |
| Canada | 7 | 4,378 |
| Other Countries | 26 | 7,780 |
| | 170 | $39,670 |

| *Manufactured Asbestos Goods:* | February 1959 Quantity | Value |
|---|---|---|
| Asbestos Cement & Pipe Covering ..Lbs. | 284,788 | $ 61,224 |
| Asbestos Textiles & Yarn .....Lbs. | 21,510 | 19,704 |
| Asbestos Packing .....Lbs. | 82,017 | 129,954 |
| Asbestos Clutch Facing .....No. | 76,594 | 69,853 |
| Asbestos Bk. Lng. (Mld & S. Mld) Lin Ft. | 120,114 | 43,688 |
| Asbestos Brake Lining, Other .....Lbs. | 428,404 | 284,308 |
| Asbestos Construction Materials ....Lbs. | 1,320,590 | 169,015 |
| Asbestos Manufactures—Others ..... | .. | 49,021 |
| | 2,334,017 | $826,767 |

**KEASBEY & MATTISON**
**NAMES SALES SERVICE SUPERVISOR**

*John R. Purtell* has been named sales service supervisor of the Asphalt Products Division of Keasbey & Mattison Company, Ambler, Pa., manufacturers of asbestos, asphalt and heat insulating products. He will be located in the company's Perth Amboy, New Jersey asphalt products plant. Mr. Purtell joined K&M in 1956 in the Asphalt Products Division.

**PIPE COVERING PROTECTORS**

*The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.*

**THE PROTECTOR CO.** • **GRANT WILSON, INC.**
SO. BOSTON 27, MASS. CHICAGO 4, ILL.

# Exports from Canada

**(Published by Dominion Bureau of Statistics)**

*Unmanufactured Asbestos:*

| | February Tons (2000 lbs.) | Value |
|---|---|---|
| *Crude* | | |
| United States | .. | $ .. |
| United Kingdom | .. | .. |
| South America | .. | .. |
| Central America & Mexico | .. | .. |
| European Countries | 3 | 2,394 |
| Other Countries | .. | .. |
| | 3 | $ 2,394 |
| *Milled* | | |
| United States | 10,537 | $2,089,923 |
| United Kingdom | 580 | 175,766 |
| South America | 57 | 11,511 |
| Central America & Mexico | 45 | 6,831 |
| European Countries | 964 | 228,165 |
| Other Countries | 1,158 | 174,178 |
| | 13,341 | $2,686,374 |
| *Shorts* | | |
| United States | 38,146 | $2,032,312 |
| United Kingdom | 615 | 27,016 |
| South America | .. | .. |
| Central America & Mexico | 65 | 2,935 |
| European Countries | 992 | 60,716 |
| Other Countries | 263 | 20,488 |
| | 40,081 | $2,143,467 |
| *Grand Total— Unmanufactured Asbestos:* | 53,425 | $4,832,235 |

*Manufactured Asbestos Goods:*

| | |
|---|---|
| Brake Lining | $ 15,336 |
| Packing | .. |
| Other Materials | 3,731 |
| | $ 19,067 |

**FIBREBOARD PAPER PRODUCTS CORP.**
**Elects Executives**

Three top executives of Fibreboard Paper Products Corporation were elected vice presidents by the Board of Directors following the company's annual meeting of shareholders.

*Mel R. Baruh, George W. Burgess* and *Jack H. Grady* became officers of the company in what was described by President William L. Keady as "another indication of Fibreboard's continuing emphasis on expansion in both manufacturing and sales".

Mr. Baruh started with Fibreboard as an employee in the company's San Francisco plant in 1922. He has progressed since that date through successive top sales management positions in all phases of the company's packaging business.

Mr. George W. Burgess, a graduate of Massachusetts Institute of Technology, joined Fibreboard early in 1958 following a lengthy career in manufacturing management. Since January 1, he has been general manager — Manufacturing Division, responsible for the administration of all Fibreboard plants and manufacturing activities. With his election, his title is vice president—manufacturing.

Jack Grady, who has been general manager — Packaging Group at Fibreboard since April 1, 1958, is responsible for the management of a major portion of the company's business. Mr. Grady will now be vice president and general manager—Packaging Group.

**FLINTOKOTE NAMES J. A. MAIN**
**TO HEAD NEWLY ALIGNED INDUSTRIAL DIV.**

*James A. Main* has been named to manage the newly aligned Industrial Division of The Flintkote Company, George J. Pecaro, President, announced recently. Mr. Main is also Assistant Secretary of the Company.

According to Mr. Pecaro, the new Division will handle the sale of products for the automotive, railway, paving and industrial products for the building industry—those products which are normally sold in bulk quantities and which are distributed through industrial converters, contractors and industrial distributors.

Under Mr. Main, three departmental managers, all of whom will report to Mr. Main, were also named: *A. J. Healey* for automotive and railway products; *C. Scibel, Jr.* of the Whippany, New Jersey office for paving products; and *W. H. Mortonson* for industrial products.

*H. Kaun*, who handles export sales for all company divisions except Flintkote Ltd. and the Pioneer (West Coast) Division, will also report to Mr. Main.

Mr. Main, who has been with Flintkote since 1929 is also a vice president of the Patent and Licensing Corporation, a Division of the Flintkote Company.

Exporters of

## RAW ASBESTOS

ALL GRADES—ALL TYPES

## C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLKSKAS BLDG. — 76 MARKET STREET

## JOHANNESBURG - SOUTH AFRICA

## INDUSTRIAL SERVICE COMPANY

**Builders of**

## ASBESTOS CEMENT MACHINERY

**Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.**

**Your Inquiries Are Invited**

**1-51 Paterson Avenue** **E. Rutherford, N. J.**

# ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

US RUBBER

Write: Asbeston® Dept., Textile Division

**UNITED STATES RUBBER COMPANY**

1230 Avenue of the Americas, New York 20, N.Y.

**THE RUBEROID CO.**

**First Quarter Report**

Net sales of The Ruberoid Co. for the three months ended March 31, 1959, were the largest for any first quarter in the Company's 73-year history, E. J. O'Leary, chairman and president, told company stockholders at the annual meeting. Net sales for the quarter totaled $20,089,449, a gain of 35% over sales of $14,868,317 for the first three months of 1958.

Net income for the 1959 first quarter also showed a substantial increase over the comparable period a year ago amounting to $1,011,641, equal to 63 cents a share on the 1,607,723 average number of common shares outstanding during the period. For the first three months of 1958, net income amounted to $216,946, or 14 cents a share on 1,602,127 average shares outstanding.

Larger dollar sales during the first quarter of 1959 resulted from the steady rise in new building activity which commenced during the latter half of 1958. Higher net income reflects the increase in sales, firmer asphalt roofing prices and continued emphasis on cost controls.

At their annual meeting, stockholders re-elected all present directors for the ensuing year.

***Now in Operation: New Independent Source of Asbestos.*** Lake Asbestos of Quebec, Ltd. will supply 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Lake Asbestos of Quebec, Ltd., 120 Broadway, N.Y. 5, N.Y.

***North American Sales Agents:***

**Baker & Collinson**
Detroit 12
Michigan

**E. M. Walls Company**
San Francisco 11
California

**A. C. Mueller Co., Inc.**
Cleveland 14, Ohio

**Van Horn, Metz & Co., Inc.**
Conshohocken
Pennsylvania

**E. B. Taylor Company**
Los Angeles 13
California

**D. H. Litter Co., Inc.**
New York and Allston,
(Boston) Mass.

**Federated Metals**
Houston 29
Texas

**LAKE ASBESTOS OF QUEBEC, LTD.**
a subsidiary of American Smelting and Refining Company

**THE FLINTKOTE COMPANY**

**First Quarter Report**

The Flintkote Company, manufacturer of America's broadest line of building products for home and industry, reported that sales for the first three months of 1959 rose 21.6% over a year ago with a resultant gain in net income to 32 cents a share on the outstanding common stock.

First quarter sales amounted to $42,543,791 compared with a revised volume of $34,996,435 in the initial three months of 1958. Net income totaled $1,515,963, equal after preferred dividend requirements to 32 cents per share on 3,866,080 average common shares outstanding. This compared with revised net income for the first quarter last year amounting to $471,331, or 5 cents per share on 3,777,545 average common shares outstanding.

Without giving effect to the new acquisitions, Flintkote reported last year a first quarter net loss of $151,435 and sales of $22,506,159.

## ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

| | | May 1959 | | |
|---|---|---|---|---|
| | Par | Low | High | Last |
| American Brake Shoe | np | 48¾ | 54½ | 53⅝ |
| Armstrong Cork (Com) | 1 | 41 | 46 | 44¾ |
| Armstrong Cork (Pfd) | np | 80½ | 86½ | 81½ |
| Asbestos Corporation | np | 27 | 30 | 29⅞ |
| Philip Carey | 10 | 41¾ | 48¼ | 44½ |
| Cassiar Asbestos Corp. | np | 10¼ | 11¼ | 11¼ |
| Celotex (Com) | 1 | 40¼ | 43⅞ | 42⅝ |
| Celotex (Pfd) | 20 | 18½ | 20 | 18½ |
| Certain-Teed | 1 | 15⅛ | 16¾ | 15⅝ |
| Fibreboard | np | 51¼ | 56½ | 55⅜ |
| Flintkote (Com) | 5 | 38⅜ | 43½ | 43½ |
| Flintkote (Pfd) | np | 87 | 90 | 89 |
| Johns-Manville | 5 | 54½ | 59¾ | 55⅝ |
| National Gypsum (Com) | 1 | 66 | 69⅞ | 68¼ |
| National Gypsum (Pfd) | np | 93 | 96 | 96 |
| Porter, H. K. | 100 | 89¾ | 92⅜ | 91 |
| Raybestos-Manhattan | np | 62 | 73 | 70 |
| Ruberoid | 1 | 43¾ | 46⅞ | 45 |
| Unarco | 5 | 10 | 12 | 10⅜ |
| United Asbestos | 1 | $4.80 | $5.40 | $5.00 |
| U.S. Gypsum (Com) | 4 | 109 | 114½ | 112 |
| U.S. Gypsum (Pfd) | 100 | 150 | 163 | 155 |
| U.S. Rubber (Com) | 5 | 55½ | 64⅞ | 64⅞ |
| U.S Rubber (Pfd) | 100 | 147¼ | 156¾ | 148¼ |

# BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

***Producers of***

***Raw Asbestos Crudes***

***& Fibres***

***Sales Representatives***

***for***

**Cassiar Asbestos Corporation Limited**

# NEWS OF THE INDUSTRY

## HAPPY BIRTHDAY

E. B. Poulin, Secretary-Treasurer, Asbestonos Corp. Ltd., Montreal, Canada, June 20.

Ladd L. Wilson, Vice President—Sales, Nicolet Industries, Inc., Florham Park, New Jersey, June 20.

Harold W. Donnelly, Vice President & General Manager, Smith & Kanzler Corp., Linden, New Jersey, June 22.

C. A. Schell, Vice President, Thermoid Co., Trenton, New Jersey, June 22.

L. W. Clarke, Jr., The Philip Carey Manufacturing Co., Cincinnati, Ohio, June 26.

A. F. Moore, retired, Manager—Asbestos Dept., The Philip Carey Manufacturing Co., Cincinnati, Ohio, June 26.

Thomas J. Walters, Assistant Manager—Industrial Products Dept., The Ruberoid Co., New York City, June 27.

L. B. Palmer-Ball, President, Palmer Asbestos Co., Louisville, Kentucky, June 29.

Ernest A. Beldam, Director, Beldam Asbestos Co. Ltd., Hounslow, England, June 30.

Vincent W. Hemphill, Secretary, Standard Asbestos Manufacturing Co., Chicago, Illinois, July 1.

John W. McGovern, President, U. S. Rubber Co., New York City, July 5.

Charles S. Wood, Treasurer, Charles S. Wood & Co., Newark, New Jersey, July 6.

C. L. Hoshaw, Manager—Construction Division, The Philip Carey Manufacturing Co., Cincinnati, Ohio, July 7.

G. K. McKenzie, Executive Vice President, The Flintkote Co., New York City, July 7.

Captain W. A. Janitch, R. E., Representative in Great Britain for Asbestos Corporation Ltd., London, England, July 10.

A. M. Ehret, Jr., President, Ehret Magnesia Manufacturing Co., Valley Forge, Pennsylvania, July 11.

H. W. Prentis, Jr., Chairman, Armstrong Cork Co., Lancaster, Pennsylvania, July 11.

John J. Sullivan, Jr., President, Asbestos & Magnesia Materials Co., Chicago, Illinois, July 13.

Irving McCormick, President, The McCormick Asbestos Co., Baltimore, Maryland, July 13.

Carlo M. Weber, Manager—Careystone Corrugated Dept., The Philip Carey Manufacturing Co., Cincinnati, Ohio, July 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

# Antony Gibbs & Co., Inc.

**61 Broadway**

**New York 6, New York**

**Tel. Digby 4-6580**

*View of Boss Mines, Mashaba*

## ASBESTOS FIBRES

**Chrysotiles, Blues, Amosites**

***Agent in the United States for***

**S. A. ASBESTOS TRADING (PTY.) LTD.**

**UNION ASBESTOS & RUBBER CO.**
**ELECTS FOUR TO BOARD**

Four national prominent business men were added to the Board of Directors, bringing the total to eleven, at the Annual Meeting of Shareholders of the Union Asbestos and Rubber Co. Those elected were *James W. Alsdorf*, President Cory Corporation; *Patrick H. Hoy*, President Hotel Sherman, Inc. and Ambassador East, Inc.; *Attorney William J. Friedman* and *Edward E. Voynow*, President of Edward E. Petry & Co., national radio and television representatives, as well as the present members of the board, with the exception of Reuben L. Freeman, deceased, and Barney E. Hokin, retired.

The stockholders further voted to increase the company's capital stock from 500,000 to 900,000 shares. The primary purpose of the additional capital stock is to make available the use of additional shares in the event of future diversification by acquisition of other business activities.

For the first quarter, shipments were reported up approximately 15% and new orders approximately 20%.

UNARCO President Edwin E. Hokin stated: "While last year we showed a loss for the first quarter of $84,824 before Federal Taxes, and whereas the books are not closed as yet, preliminary figures show that we will have a profit for the first quarter of this year".

UNARCO management is looking forward to the balance of the year with optimism.

**FLINTKOTE ELECTS**
**N. J. REDMOND, DIRECTOR**

*Noel J. Redmond*, President of Blue Diamond Corporation was recently elected to the Board of Directors of The Flintkote Company, manufacturer of the broadest line of building products for home and industry in the United States.

Mr. Redmond's election to the Flintkote Board took place at a special stockholders meeting in Boston at which Flintkote shareowners also approved acquisition of the West Coast gypsum producing company.

*"Specialty Fibres Our Business"*

**Metate Asbestos Corporation**

P.O. Box 111 Globe, Arizona

***Producers of Arizona Asbestos Grades***
***AAA, 3, 4, 5, 6, 7 and 8 Milled Fibres***

*Very white, low iron content, high drainage harsh fibres, high filtration soft fibres.*

**RAW ASBESTOS DISTRIBUTORS**

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

# CURRENT RANGE OF PRICE

As of June 10, 1959

**ARIZONA**— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

| | |
|---|---|
| No. 1 Crude (soft) | $1,475.00 to $1,850.00 |
| No. 2 Crude (soft) | 830.00 to 1,260.00 |
| Group-3 (Plastic & Spinning Fibre) | 375.00 to 675.00 |
| Group-4 (Plastic & Filtration) | 190.00 to 250.00 |
| Group-5 (Plastic & Moulding) | 125.00 to 177.00 |
| Group-7 ((Refuse & Shorts) | 60.00 |

**CANADA**— Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency

| | |
|---|---|
| Group No. 1 (Crude No. 1) | $1,475.00 to $1,850.00 |
| Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry | 790.00 to 1,200.00 |
| Group No. 3 (Spinning Fibre) | 370.00 to 650.00 |
| Group No. 4 (Shingle Fibre) | 180.00 to 245.00 |
| Group No. 5 (Paper) | 120.00 to 150.00 |
| Group No. 6 (Waste, Stucco or Plaster) | .. 86.00 |
| Group No. 7 (Refuse or Shorts) | 40.00 to 80.00 |

**VERMONT**—Per ton of 2,000 lbs. f.o.b. Hyde Park or Morrisville, Vt.

| | |
|---|---|
| Group No. 3 (Spinning & Filtering) | $ 370.00 to $ 428.00 |
| Group No. 4 (Shingle Fibre) | 181.00 to 200.00 |
| Group No. 5 (Paper Fibre) | 120.00 to 152.00 |
| Group No. 6 (Waste, Stucco or Plaster) | .. 86.00 |
| Group No. 7 (Refuse or Shorts) | 41.00 to 75.00 |

**U. S. RUBBER CO.**

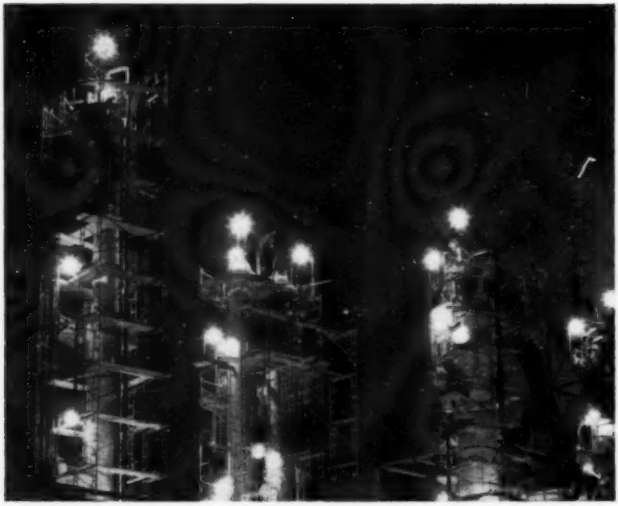
**First Quarter Report**

Net profit of United States Rubber Co. for the first three months of 1959 was $10,198,798 equal to $1.55 a share of common stock, compared with $3,890,699, or 45 cents a share in the same period last year, H. E. Humphreys Jr., chairman, reported to stockholders.

Sales for the period were $249,303,208, compared with $196,280,095 in the first quarter of 1958.

Net profit for the quarter was 4.1 per cent of sales, compared with 2.0 per cent a year ago

Current assets on March 31 were $450,516,562, compared with $387,306,817 a year earlier. Current liabilities were $148,167,568, compared with $107,354,381. Net working capital totaled $302,348,994 on March 31, compared with $279,952,436 a year ago.



Drastic reduction of heat loss with

**PABCO PRECISION-MOLDED CALTEMP**

a Calcium Silicate Insulation

**When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.**

**INSULATION GUIDE**

| Temperature | Recommended Pabco Insulation |
|---|---|
| to 550° F. | 85% Magnesia<br>pipe covering • block • cement |
| to 1200° F. | Caltemp<br>pipe covering • block • cement |
| to 1500° F. | Prasco 15 C<br>pipe covering • block • cement |
| to 1900° F. | Prasco 19 C<br>block |

PABCO

**INDUSTRIAL INSULATIONS DIVISION**

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

**CAREY-CANADIAN MINES LTD.**

**APPOINTS JAPANESE AGENT**

T. Kakiuchi, President of T. Kakiuchi & Company, Ltd., Tokyo, Japan, and A. E. Binger, Carey-Canadian Mines, Ltd., East Broughton Station, Quebec, Canada, jointly announced the appointment of T. Kakiuchi & Company, Ltd., as exclusive agent for the sale of Carey-Canadian asbestos fibre and shorts in Japan.

T. Kakiuchi & Company, Ltd., have represented South African asbestos mines in Japan for some years. Their broad knowledge of asbestos fibre usage will be supplemented by Carey-Canadian sales technicians and basic research personnel in the modern fibre research laboratory at Carey-Canadian's new asbestos mine and mill at East Broughton, Quebec, Canada.

In addition, the parent company, The Philip Carey Manufacturing Company, will provide technical assistance and know-how to Japanese users of Carey-Canadian fibre through the facilities of seven modern plants using asbestos and a product research laboratory located at Lockland, Ohio.

T. Kakiuchi & Company, Ltd., maintain offices at No. 9 Honcho 1-Chome, Nihonbashi Chuo-Ku, Tokyo, Japan, and No. 12 Hiranomachi 4-Chome, Higashi-Ku, Osaka, Japan.

**UNION ASBESTOS & RUBBER CO.**

**First Quarter Report**

Operations of Union Asbestos & Rubber Co. for the first quarter 1959 were in the black on the strength of a 15% rise in shipments, Edwin E. Hokin, president, said after the annual meeting.

For the like period a year ago, Union Asbestos reported a loss of $40,716 and sales of $2,071,530. For all of 1958 the company had a net loss of $236,046 on sales of $9,047,160. Orders in the first quarter were up 20%.

During the meeting, attended by 15 shareholders, a resolution increasing the number of authorized common shares to 900,000 from 500,000 was approved. Mr. Hokin noted the purpose of the increase proposed by directors was to make shares available for use in possible future acquisitions.

**CAPE ASBESTOS (CANADA) LTD.**

**Appointment**

The appointment of *Ian C. Spark* as General Manager of Cape Asbestos (Canada) Ltd., has been announced by Mr. Robert E. Cryor, President.

Mr. Spark will operate from Cape Asbestos (Canada) Ltd. headquarters in Toronto.

He will be responsible for distribution and marketing activities on behalf of Cape's materials and products of both Blue and Amosite asbestos throughout all provinces.

We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

**BRITISH BELTING & ASBESTOS LTD.**

Cleckheaton, Yorkshire, England

**K&M FORMS NEW PRODUCTS DEPT.**

In keeping with its policy of intensified product and market expansion is the announcement from Robert R. Porter, President of Keasbey & Mattison Company, Ambler, Pa., disclosing the formation of a new products department designed to carry new products along from the idea stage to the marketing stage. The new department will be under the direction of J. R. MacMaster, who will report to the President. He will also serve as permanent chairman of K&M's new products committee. Mr. MacMaster was formerly assistant to the vice president—production.

"An idea for a new product just isn't enough", Mr. Porter declared in announcing the formation of the new department; "the idea must ultimately be translated into a marketable product which will be of benefit both to the consumer and the company". "In many companies, ideas for new products find an early grave because of company red tape; at K&M, our goal will be to get as many worthwhile ideas into the production stage as possible."

According to the company's chief executive, the new products department is a logical evolutionary step in K&M's continuing campaign to cultivate broader applications and wider markets for its asbestos, asphalt and heat insulating products.

**CAPE ASBESTOS ACQUIRES**
**WILLIAM TURNER (KISMET) LTD.**

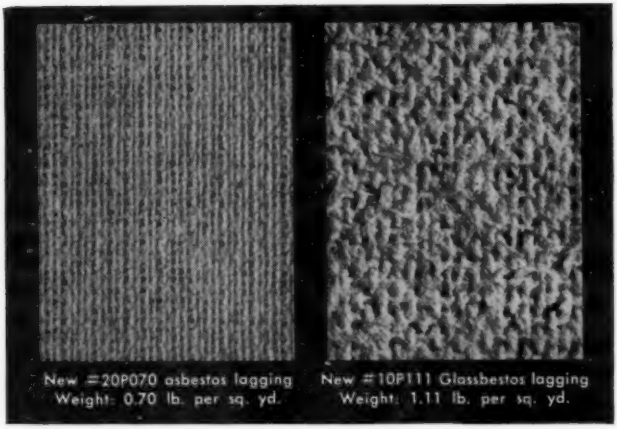
The Cape Asbestos Company Limited, London, England, has acquired the whole of the share capital of Messrs. William Turner (Kismet) Ltd., Eyre Works, Sheffield, the old-established manufacturers of high quality equipment and accessories for the motor trade.

The business will be closely integrated with that of the Weaver Manufacturing & Engineering Company Limited, also a wholly-owned subsidiary of The Cape Asbestos Company Limited, and the Board and Management will be the same for both Companies, with the addition in the case of William Turner (Kismet) Ltd. of Mr. William Turner, the founder of the Company.

**THE PHILIP CAREY MANUFACTURING CO.**
**First Quarter Report**

Report for the first quarter of 1959 was issued recently by The Philip Carey Manufacturing Company, and gives the following figures:

| | |
|---|---|
| Sales, 1959 | $15,410,137.00 |
| Compared with same period, 1958 | 13,156,192.00 |
| Net earnings after taxes on income, 1959 | 556,001.00 |
| Compared with same period, 1958 | 26,481.00 |
| Earnings per common share, 1959 | .65 |
| Compared with same period, 1958 | .03 |



New #20P070 asbestos lagging
Weight: 0.70 lb. per sq. yd.

New #10P111 Glassbestos lagging
Weight: 1.11 lb. per sq. yd.

# NEW, LOWER-COST R/M ASBESTOS AND *Glassbestos*® LAGGING CLOTHS SAVE WEIGHT ON SHIPBOARD

Look for new profits by using the new R/M lagging cloths for shipboard application. Type #20P070 has only half the weight of standard Navy Class 5 lagging cloth and provides a 29% cost saving. Type 10P111 Glassbestos provides a cost and weight saving of more than 20% as compared with the standard 1.40 lb. Class 5 lagging cloth. Suitable for steam generating plants, too. Write now for full information and samples.

R M

**RAYBESTOS-MANHATTAN, INC.**
**ASBESTOS TEXTILE DIVISION, Manheim, Pa.**

**FACTORIES:** No. Charleston, S.C.; Manheim, Pa.; Bridgeport, Conn.; Paramount, Calif.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

RAYBESTOS-MANHATTAN, INC., Asbestos Textiles • Laundry Pads and Covers • Mechanical Packings • Brake Linings • Brake Blocks Clutch Facings • Rubber Covered Equipment • Industrial Rubber Engineered Plastics • Sintered Metal Products • Industrial Adhesives Abrasive and Diamond Wheels • Bowling Balls

# SOUTHERN ASBESTOS — TEXTILES

SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.